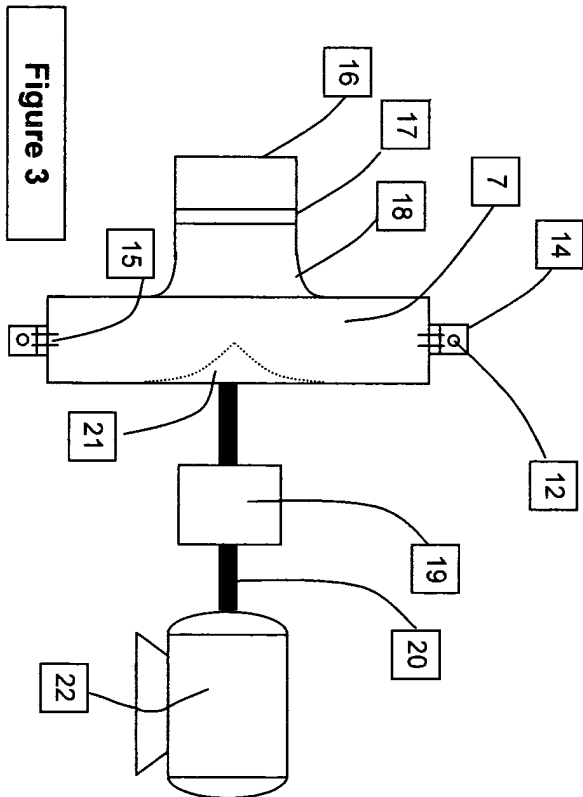
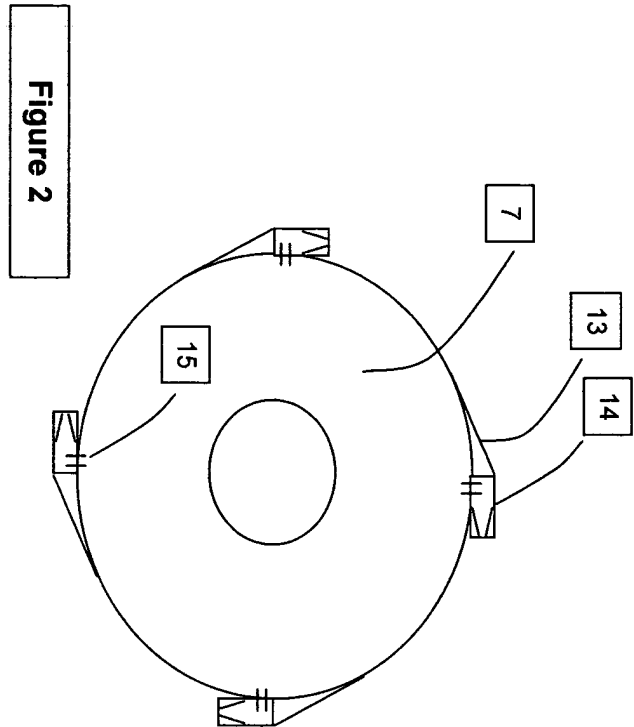
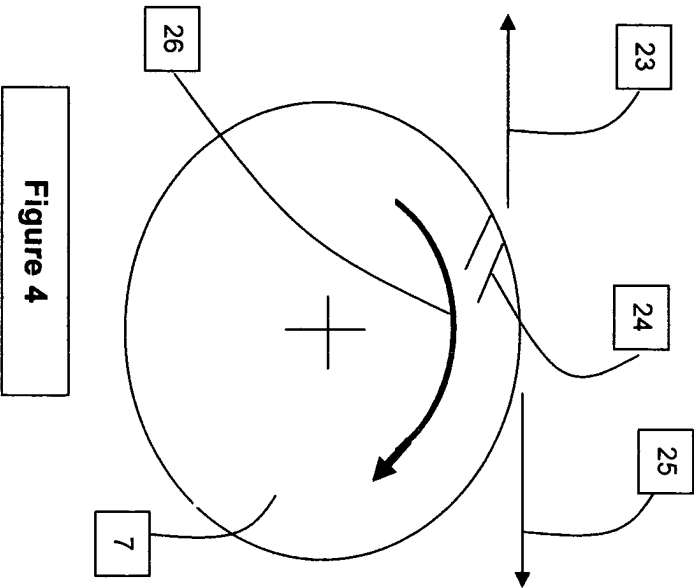


Figure 1

Front Page View

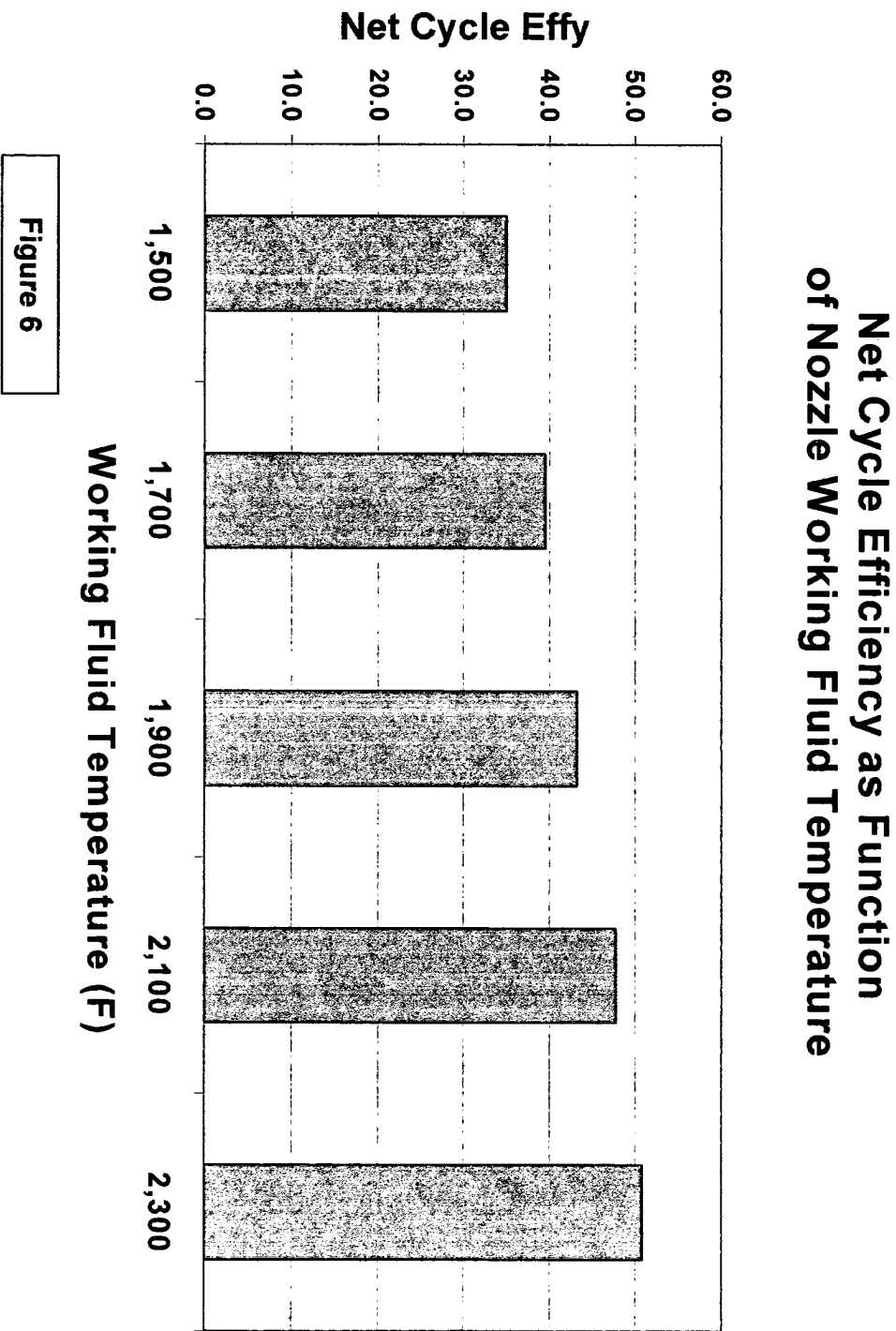
Mark J. Skowronski  
KINETIC ENERGY TURBINE WITH RECUPERATION  
(714) 348-4089





Summary of REIT Cycle Calculations	
Sonic Velocity at 1,600F	2,225 ft/sec
Mach Number achieved	0.976
Turbine Gross Output	94.2 BTU/lb
Kinetic Energy	
Aux/Misc Losses at 2.5% of gross	2.4 BTU/lb
Adjusted Turbine Gross Output	91.8 BTU/lb
Compressor Work, 80% isentropic efficiency @ PR=2.3 (1.84 after losses)	42.0 BTU/lb
Recuperator (in) - 3%	
Combustor - 5%	
Wheel - 5%	
Nozzle - 2%	
Recuperator (out) - 3%	
Miscellaneous - 3%	
Net Turbine Shaft Work	49.8 BTU/lb
Generator Loss- 5%	47.3 BTU/lb
Gear Loss -2%	46.4 BTU/lb
Heat In	113.7 BTU/lb
Thermal Loss - 2%	116 BTU/lb
Net Efficiency (LHV)	46.4/116 = 40%

Figure 5



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